HACKBERRY, PINAL CO. S/2 Sec 8-T5S-R14E, No Permit //-6

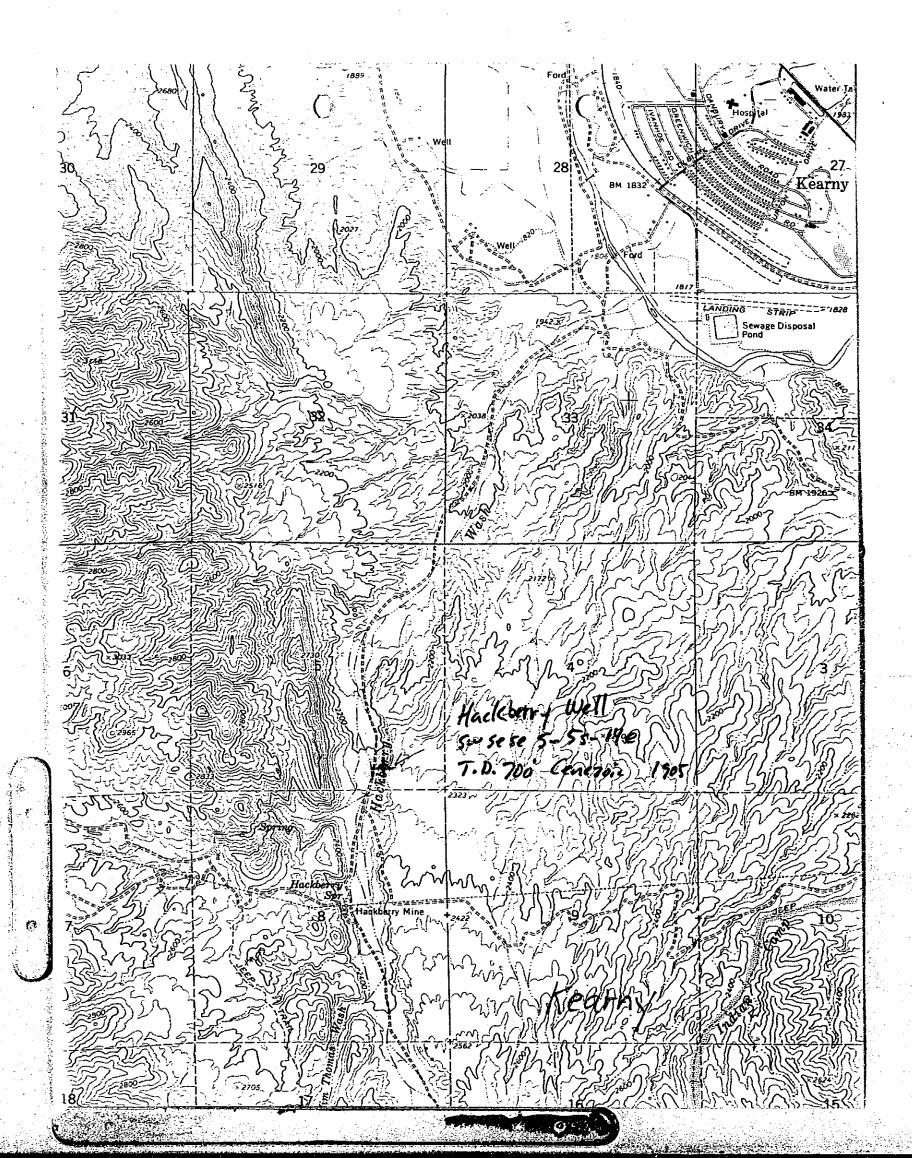
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Well	
Name Hackberry	
Location S/2 Sec 8 Twp 5S Range	14E Footage ~ 550 fsl /300 fel.
'Elev 22 40' Gr KB Date	Completed Total Abandon 1905 Depth 700
Contractor	
Casing Size Depth Cement	Drilled by Rotary Cable Tool
	Production Horizon
	Initial Production
REMARKS See photo Ransome, USGS Prot	
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	5 eleu ~ 2240'
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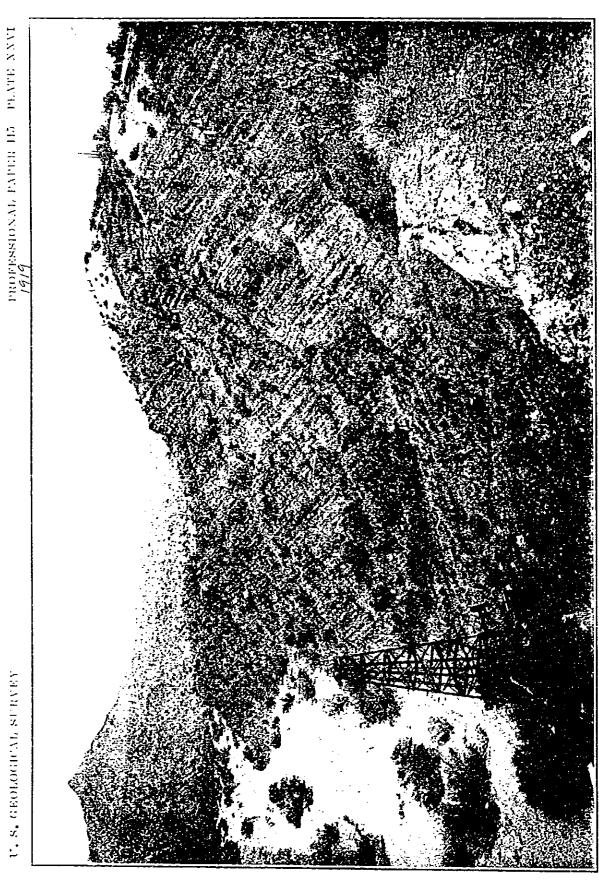
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PROFESSIONAL PAPER H5 PLATE NAVI



A. UNUSUALLY WELL STRATIFIED AND STEEPLY THIFFD MATERIAL PROVISIONALLY INCLUDED WITH THE GILA

Exposure is near Hackberry Spring, in the southwestern part of the Ray quadraugle. The direction of view is nearly north. The derrick records an attempt to find oil under these heds.

Photo taken ~ 1903-1904

32×1

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PROFESSIONAL PAPER H5 PLATE XXVI



A. UNUSUALLY WELL STRATIFIED AND STEEPIN THITED MATERIAL PROVISIONALLY INCLUDED WITH THE GILA CONCLOSIONALLY INCLUDED WITH THE GILA

Exposure is near Backberry Spring, in the southwestern part of the Ray quadrangle. The direction of view is nearly north. The derrick response is nearly north. The derrick

Photo taken ~ 1903-1904

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32 × \$1

Near Hackberry Spring (see Pl. II) the Gila | formation, probably having an unconformable formation consists of well-bedded coarse sandstone, composed almost entirely of partly rounded granitic crumbs derived from the coarse pre-Cambrian granite of the Tortilla Range. Along the upper, north-south portion of Hackberry Wash the Gila is prevailingly reddish and sandy and occurs in beds for the most part about a foot thick. These beds consist largely of andesitic detritus and contain some fragments of andesite as much as 2 feet across. A view of these beds as exposed on the east side of Hackberry Wash is shown in Plate XXVI, A. Stratigraphically under them and lapping up against the Paleozoic rocks to the west (Pl. XXVI, B) is fully 100 feet of soft, crumbling brownish-gray sandstone and sandy shale. There is much faulting in this vicinity, and the silty material is probably faulted against the older rocks and is not the real base of the Gila formation. Where the basal part of the formation is exposed, as farther north along the east side of the Tortilla Range, it consists of coarse fragments of obviously local derivation. The brown sand and shale is made up principally of mineral particles derived from the granite of the range.

In the extreme southwest corner of the Ray quadrangle is a synclinal basin of Gila conglomerate surrounded for the most part by hills of pre-Cambrian granite. This basin is drained by the intermittent Ripsey Wash, near the mouth of which, about 3 miles west of Kelvin. the Gila formation may be seen resting on the granite. Here the formation consists of light pinkish-gray tuffaceous-looking beds carrying fragments of granite in a matrix composed largely of volcanic material, apparently dacitic. The beds vary much in thickness, ranging from shaly seams to strata measuring over 6 feet. Other facies appear farther south. Much of the material is a coarse breccia, the beds of which are thick and rather vaguely laminated. Blocks of granite 3 feet in greatest length are embedded in coarse granitic sand or in a matrix of granitic and dacitic débris. In places beds of soft sandstone or fine silt separate the coarser lavers.

The beds southwest of Gila River are in part so different from the Gila conglomerate in other parts of the quadrangle and are as a whole so much better stratified that my inclination at

relation to the Gila. No evidence of unconformity, however, could be detected, and the well-bedded material appears to grade upward and laterally into Gila conglomerate of the common variety. Evidently the basin in which deposition took place in the southwestern part of the Ray quadrangle was exceptionally deep, and rapidly accumulating coarse fluviatile material graded at times into finer sediments laid down in comparatively still

The deformation of these beds is considered under "Structure" (pp. 75-80).

The accumulation of the Gila conglomerate is clearly indicative of intensely active erosion consequent upon the period of vigorous deformation that outlined the present mountains and valleys of the region. As a result of the block faulting and earth movements that followed the eruption of the dacite, the mountain ranges were much higher than at present and the larger or structural valleys much deeper. Consequently the stream grades were steep and the erosive and transporting powers of the running water were far greater than they are now in the same region. Possibly the greater height of the mountains was accompanied by greater precipitation than at present, but the general character of the deposit points to a decided preponderance of mechanical disintegration over rock decay and to an arid rather than a humid climate.

The same indication is afforded by the occurrence of gypsum associated with the silty facies of the Gila formation on Salt River north of the area here specially considered. To one familiar with the intensive work occasionally accomplished in a few hours by the fierce rush of local storm water along one of the present streamways there appears to be little necessity to require any great increase in precipitation to account for the deposition of the Gila conglomerate under the conditions of waste supply and grade then prevailing. Some increase there may have been, but not enough to make the conditions of plant growth, rock disintegration, erosion, transportation, and deposition very different in kind from those of to-day.

The thickness of the Gila formation varies greatly from place to place, and probably no measurement gives the true maximum. Befirst was to regard them as a distinctly older I tween Hackberry Spring and Gila River near

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